

11 SERVICE PROVIDER

2. COMMUNICATION NETWORK

10 SHOP

1 INFORMATION INPUT TERMINAL

7 CONCENTRATED MANAGEMENT SERVER

4 REGIONAL DISTRIBUTION SERVER

A-1

A-2

5

9

6

8

3. REGIONAL DISTRIBUTION SERVER

F I G. 1

RENTS THE INFORMATION INPUT
(RENTAL MONEY) TERMINAL



CONCENTRATED MANAGEMENT SERVER 7

INTERNET

Web SERVER

REGIONAL DISTRIBUTION SERVER

REGIONAL DISTRIBUTION SERVER

REGIONAL DISTRIBUTION SERVER

B-1

B-2

B-3

HANDY TERMINAL

DOMESTIC TERMINAL

FIG. 3

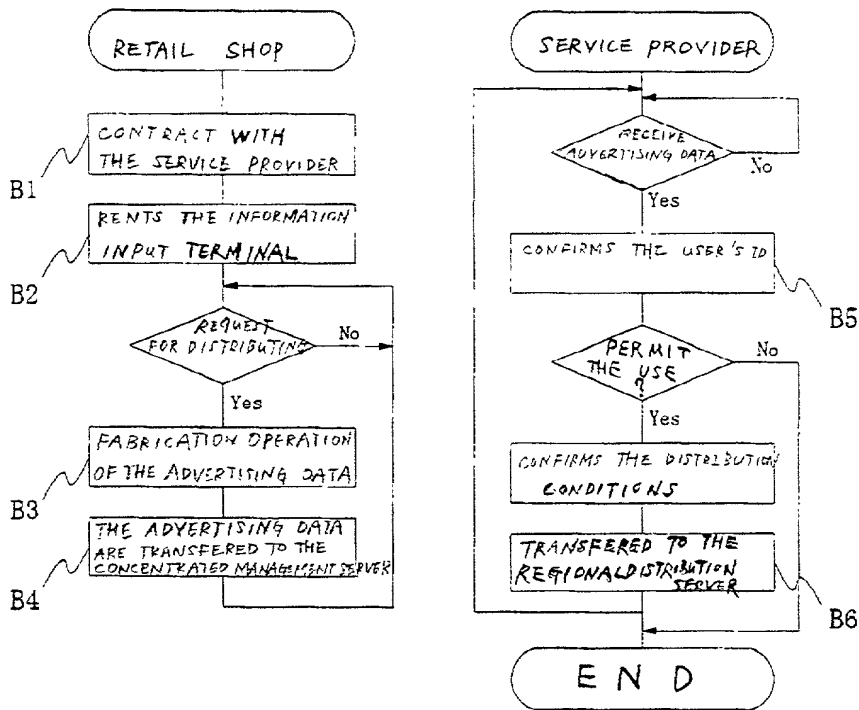


FIG. 4

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graph TD
    subgraph RetailShop [RETAIL SHOP]
        C1[CONTRACT WITH THE SERVICE PROVIDER] --> R1{REQUEST FOR DISTRIBUTING THE ADVERTISEMENT}
        R1 --> C2[SERVE THE MATERIAL FOR FABRICATING ADVERTISING DATA]
        C2 --> R2{FABRICATED?}
        R2 -- No --> R1
        R2 -- Yes --> R3{CONFIRM?}
        R3 -- No --> R2
        R3 -- Yes --> C3[NOTICES A RESULT OF CONFIRMING]
        C3 --> END1([END])
    end

    subgraph ServiceProvider [SERVICE PROVIDER]
        R1 -- No --> R1
        R1 -- Yes --> C4[FABRICATE ADVERTISING DATA]
        C4 --> R4{THE RETAIL SHOP CONFIRM?}
        R4 -- No --> R4
        R4 -- Yes --> C5[CONFIRMS THE DISTRIBUTION CONDITIONS]
        C5 --> C6[TRANSFER TO THE REGIONAL DISTRIBUTION SERVER]
        C6 --> END2([END])
    end

```

F 1 G. 5

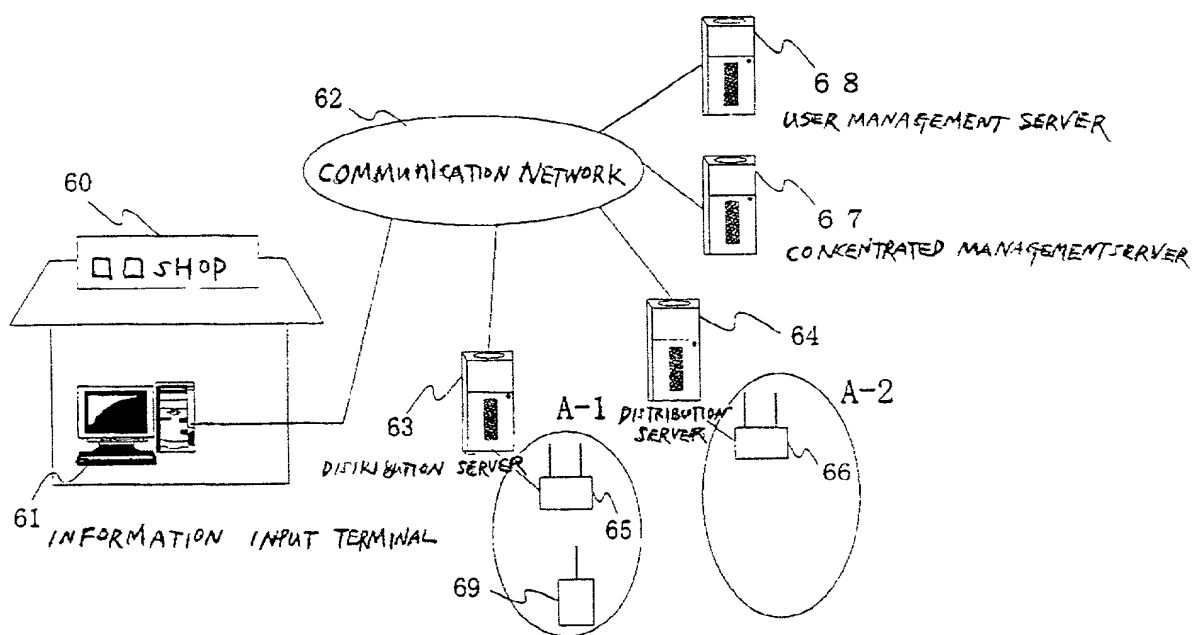


FIG. 6

0905519 063004
T00000 67550060

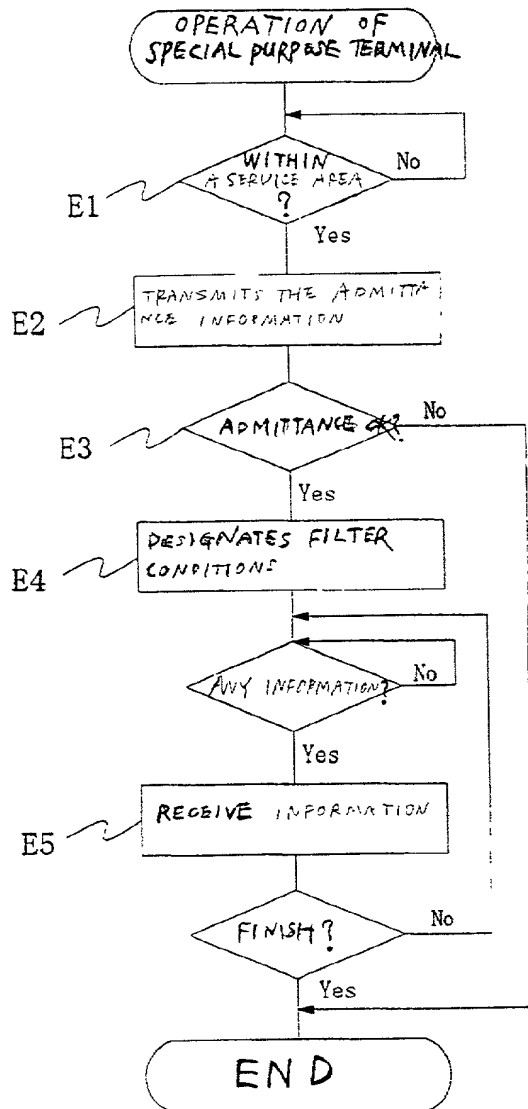


FIG. 7

0909549 000004

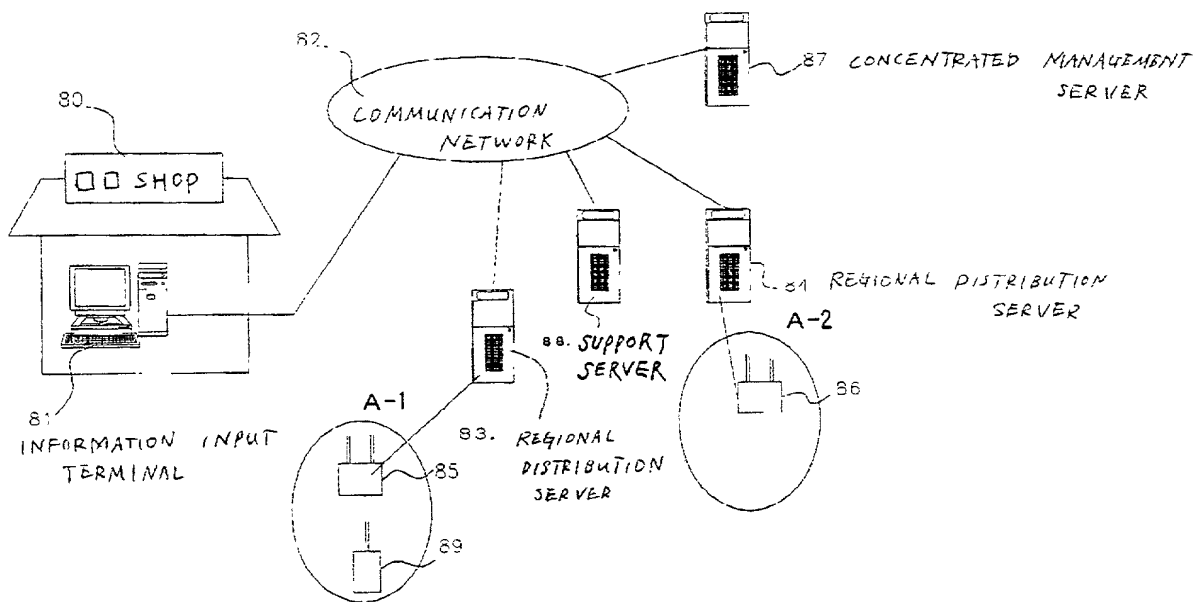


FIG. 8


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sequenceDiagram
    participant HT as HANDLY TERMINAL
    participant RDS as REGIONAL DISTRIBUTION SERVER
    participant SS as SUPPORT SERVER
    participant CMS as CONCENTRATED MANAGEMENT SERVER

    Note over RDS: INCREASE THE LOAD
    RDS->>SS: DEMANDING DISPERSION OF THE LOAD
    SS->>CMS: F1
    CMS->>SS: F2
    SS->>RDS: A DEPUTY DISTRIBUTION INDICATION
    CMS->>SS: F3
    SS->>RDS: A DEPUTY DISTRIBUTION RESPONSE
    RDS->>SS: PERMITTING DISPERSION OF THE LOAD
    RDS->>SS: DISTRIBUTION DATA
    SS->>HT: F5
    HT->>RDS: CONNECT
    RDS->>HT: DISTRIBUTION DATA

    Note over RDS: DECREASE THE LOAD
    RDS->>SS: DEMANDING CANCELLATION OF DISPERSION OF THE LOAD
    SS->>CMS: F6
    CMS->>SS: A DEPUTY DISTRIBUTION END INDICATION
    SS->>RDS: A DEPUTY DISTRIBUTION END RESPONSE
    RDS->>SS: CANCELLATION OF DISPERSION OF THE LOAD
    RDS->>SS: DISTRIBUTION DATA
    SS->>HT: F7
    HT->>RDS: CONNECT
    RDS->>HT: DISTRIBUTION DATA
  
```

The diagram illustrates the interaction between four components: HANDLY TERMINAL, REGIONAL DISTRIBUTION SERVER, SUPPORT SERVER, and CONCENTRATED MANAGEMENT SERVER. The process is divided into two main phases: 'INCREASE THE LOAD' and 'DECREASE THE LOAD'.

INCREASE THE LOAD Phase:

- The REGIONAL DISTRIBUTION SERVER initiates the process with a message labeled 'INCREASE THE LOAD'.
- A message 'DEMANDING DISPERSION OF THE LOAD' is sent from the REGIONAL DISTRIBUTION SERVER to the SUPPORT SERVER.
- The SUPPORT SERVER sends message 'F1' to the CONCENTRATED MANAGEMENT SERVER.
- The CONCENTRATED MANAGEMENT SERVER sends message 'F2' to the SUPPORT SERVER.
- The SUPPORT SERVER sends 'A DEPUTY DISTRIBUTION INDICATION' to the REGIONAL DISTRIBUTION SERVER.
- The CONCENTRATED MANAGEMENT SERVER sends message 'F3' to the SUPPORT SERVER.
- The SUPPORT SERVER sends 'A DEPUTY DISTRIBUTION RESPONSE' to the REGIONAL DISTRIBUTION SERVER.
- The REGIONAL DISTRIBUTION SERVER sends 'PERMITTING DISPERSION OF THE LOAD' to the SUPPORT SERVER.
- The REGIONAL DISTRIBUTION SERVER sends 'DISTRIBUTION DATA' to the SUPPORT SERVER.
- The SUPPORT SERVER sends message 'F5' to the HANDLY TERMINAL.
- The HANDLY TERMINAL sends 'CONNECT' to the REGIONAL DISTRIBUTION SERVER.
- The REGIONAL DISTRIBUTION SERVER sends 'DISTRIBUTION DATA' to the HANDLY TERMINAL.

DECREASE THE LOAD Phase:

- The REGIONAL DISTRIBUTION SERVER initiates the process with a message labeled 'DECREASE THE LOAD'.
- A message 'DEMANDING CANCELLATION OF DISPERSION OF THE LOAD' is sent from the REGIONAL DISTRIBUTION SERVER to the SUPPORT SERVER.
- The SUPPORT SERVER sends message 'F6' to the CONCENTRATED MANAGEMENT SERVER.
- The CONCENTRATED MANAGEMENT SERVER sends 'A DEPUTY DISTRIBUTION END INDICATION' to the SUPPORT SERVER.
- The SUPPORT SERVER sends 'A DEPUTY DISTRIBUTION END RESPONSE' to the REGIONAL DISTRIBUTION SERVER.
- The REGIONAL DISTRIBUTION SERVER sends 'CANCELLATION OF DISPERSION OF THE LOAD' to the SUPPORT SERVER.
- The REGIONAL DISTRIBUTION SERVER sends 'DISTRIBUTION DATA' to the SUPPORT SERVER.
- The SUPPORT SERVER sends message 'F7' to the HANDLY TERMINAL.
- The HANDLY TERMINAL sends 'CONNECT' to the REGIONAL DISTRIBUTION SERVER.
- The REGIONAL DISTRIBUTION SERVER sends 'DISTRIBUTION DATA' to the HANDLY TERMINAL.

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